Revised Introduction
March 2012

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:
Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

Please complete all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). For nonproject actions.

A. BACKGROUND

1. Name of proposed project, if applicable:
   Haven Lake Access Culvert Replacement

2. Name of applicant:
   Washington Department of Fish and Wildlife

3. Address and phone number of applicant and contact person:
   600 Capitol Way N, Olympia, WA 98501: Chris Gourley (360) 902-8392

4. Date checklist prepared:
   02/07/13

5. Agency requesting checklist:

Washington Department of Fish and Wildlife

6. Proposed timing or schedule (including phasing, if applicable):

Construction scheduled to begin May 2013, or when permits allow.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

None.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None are known at this time.

10. List any government approvals or permits that will be needed for your proposal, if known.

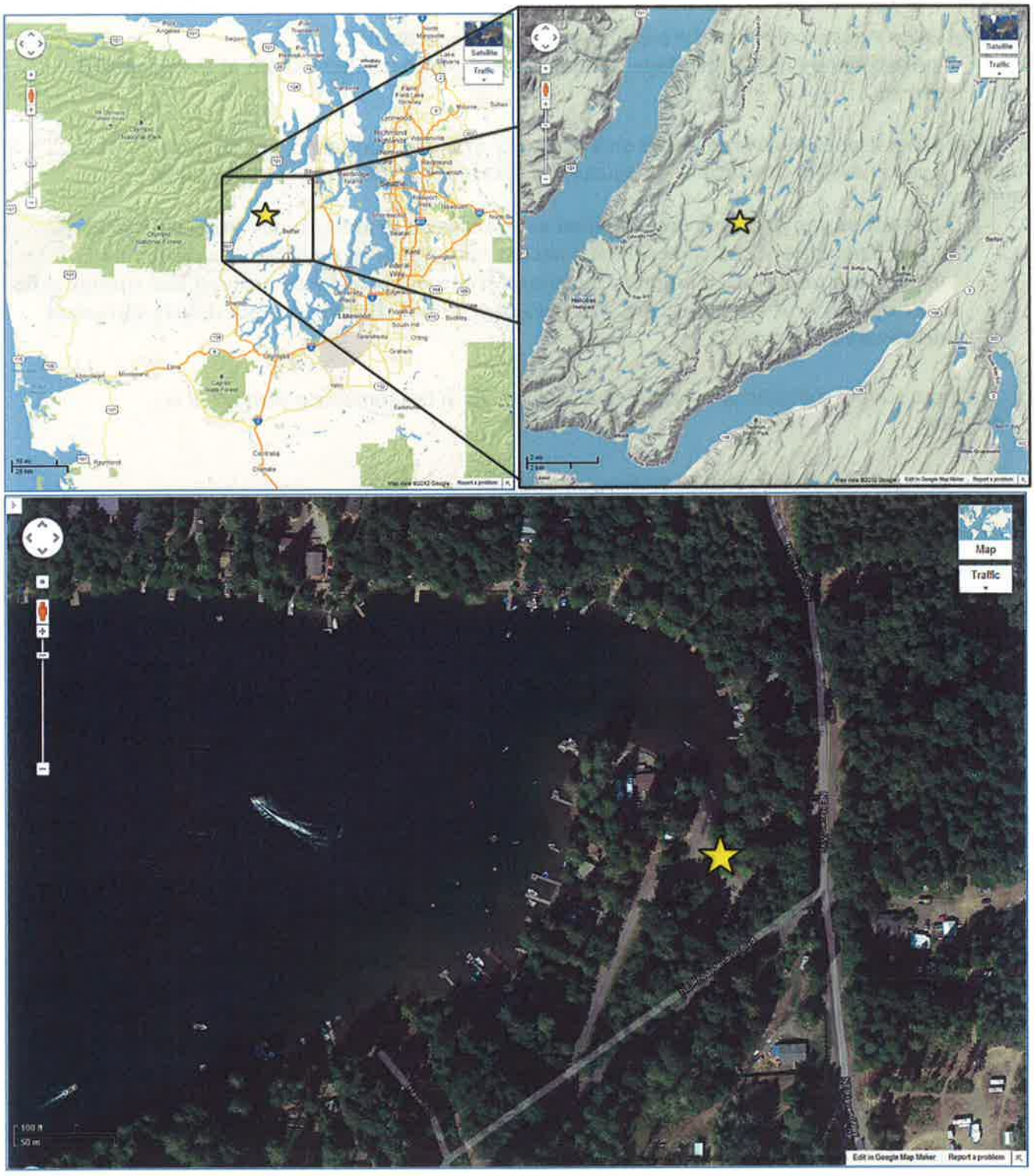
A Mason County Shoreline Exemption Permit, Mason County Building Permit, Mason County Environmental Permit, WDFW Hydraulic Project Approval, and Army Corps of Engineers Permit.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

This project will replace a culvert on the east side of the lake that is located under a gravel driveway that leads to trailer and vehicle parking. The culvert serves as an overflow for the lake and waters routinely pool in low regions, supplying habitat for juvenile salmonids. The culvert will be replaced with a 54" equivalent galvanized corrugated steel pipe arch and the parking area will be graded.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, "and county" if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The Haven Lake Public Access Site is located in Mason County approximately 6 miles west of Belfair. From I-5, take exit 104 onto Hwy 101 North and exit on WA-3 N/SE Olympic Hwy South. Continue on WA 3 and turn left onto Ne Old Clifton Rd. Continue onto WA-300 W. Continue onto NE North Shore Rd and turn right onto NE Belfair Tahuya Rd. Keep right at the fork and onto NE Haven Way. Take a slight left on NE Haven Lake Dr. The property is located within Section 30, Township 23 N, Range 2 W and the parcel number is 22330-50-00407 under ownership of Mason County with a maintenance agreement by WA Fish and Wildlife.



B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site
(circle one): **Flat**, **rolling**, hilly, steep slopes, mountainous,
other _____

b. What is the steepest slope on the site (approximate percent slope)?

Approximately 35%; this slope is along the road embankment south of the proposed culvert.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The soils on the property are classified as Alderwood gravelly sandy loam on 5 to 15 % slopes. This type of soil comes from a parent material of basal till with a component of volcanic ash and is often found in moraines. It is moderately well drained and similar soils make up 100% of the landscape. The area that will be disturbed is previously disturbed and covered in gravel.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

The purpose of the project is to enhance fish passage from the lake into a side-channel area that functions as juvenile habitat. The new culvert and stream bed material will account for 4 cubic yards of material, 2 of which is below OHW. Approximately 62 CY will be used to fill in the parking area.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion may occur, but every effort will be made to reduce erosion. Once the culvert is placed, it is unlikely there will be any erosion. Flows in this area are of low velocities.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

There will be no change in the amount of impervious surface on the site. The area of gravel driveway that will be removed to place the culvert will be replaced with gravel.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Any potential erosion will be prevented using erosion control BMPs. A staging area will be assigned to the contractor to reduce erosion on site. A sediment barrier will be placed around the staging area and within any area that construction takes place to reduce erosion. BMPs may include, but will not be limited to silt fencing and weed-free straw bales. A cofferdam will be placed at both ends of the existing culvert. It is unlikely that water will be present during the construction, but if it is, water will be pumped from the excavated area to the lake. Seeds will be used as soil stabilizers at project completion to maintain stabilization where appropriate.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Vehicle exhaust and dust from construction is expected. No long-term change in emissions is expected from the completed project.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Standard emission control converters and mufflers will be in use by construction vehicles.

3. **Water**

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Haven Lake is accessed through the site via a driveway and boat launch. There is an outlet stream that flows east from the lake through a dam on the access site. This creek will not be altered. The area that is backwater-filled through the culvert will also be impacted. This area also serves as a runoff ditch from the road.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. The project will require work within 200 feet of all listed water. The culvert to be replaced connects the backwatered area to the lake. The outlet stream will not be altered in any way.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Enough material will be removed from under and around the existing culvert to install the new one. While this will have the potential to affect the waters, it will not directly affect anything other than the shoreline in which the culvert is placed. A total of 86 cubic yards will be excavated for culvert placement. Up to 41 cubic yards will be used as backfill of the trench. About half of this will occur below the water level of the lake, but the work area will be isolated from the lake by a cofferdam.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

A cofferdam will be placed to isolate the culvert work area. Remaining water within the dammed area will be pumped to the lake. It is unlikely that water will be present in the backwatered area at the time of construction.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Yes. According to FEMA FIRM map 5301150130C, Haven Lake and a small distance from the shoreline is within Zone A. Work will be conducted within this area.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground Water:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Not Applicable.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water runoff from the roads will be collected in ditches and swales along the roads. The culvert that is being replaced will continue to convey stormwater to the lake.

2) Could waste materials enter ground or surface waters? If so, generally describe.

It is possible for waste materials to enter surface waters. There is no designated filtration system to keep waste materials out of the lake. Runoff is directed to swales and ditches along roadsides that run into the lake. No construction waste will enter the lake.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

Temporary erosion and sediment control measures will be used during construction as described in the site plans. Staging and refueling of machines will be conducted out of the OHWM with non-toxic lubricants. During project demolition and construction, a silt fence will be installed around the work area. Additional siltation prevention BMPs include filter fabric fences and hay bales. At project conclusion, these materials will be removed by hand and taken to an approved disposal site out of the flood zone.

All exposed soils will be sloped to promote runoff and covered with straw mulch and grass seed. Native plantings will be installed where appropriate. All work will be done in accordance with the terms and conditions of required permits. Please see site drawings for additional details.

4. Plants

a. Check or circle types of vegetation found on the site:

__x__ deciduous tree: **alder**, **maple**, aspen, other: **cottonwood**
__x__ evergreen tree: fir, cedar, pine, other
__x__ shrubs
__x__ grass
_____ pasture
_____ crop or grain
__x__ wet soil plants: cattail, **buttercup**, bullrush, skunk cabbage, other
__x__ water plants: water lily, eelgrass, milfoil, other
_____ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Existing trees will be protected in place where possible. If any vegetation is removed for installation, it will be replaced with native plants at project completion where possible. There is a "danger tree" that some neighbors have identified. It is possible that this tree will be removed. It is along the creek and may cause harm to the dam if it falls.

c. List threatened or endangered species known to be on or near the site.

The Natural Heritage Program (NHP) databases as well as the federal agency listings (USFWS) were examined for threatened or endangered plants on January 23, 2013. There are three threatened species in Mason County: Pacific lanceleaved springbeauty (*Claytonia multiscapa pacifica*), water lobelia (*Lobelia dortmanna*), and Adder's-tongue (*Ophioglossum pusillum*).

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Existing trees will be protected in place where possible. If any vegetation is removed for culvert installation, it will be replaced with native plants at project completion where possible. A "danger tree" is posing a possible threat to the dam and may be removed.

5. **Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, **heron**, **eagle**, **songbirds**, other:
mammals: **deer**, bear, elk, beaver, other:
fish: bass, **salmon**, **trout**, herring, shellfish, other

b. List any threatened or endangered species known to be on or near the site.

Northern spotted owl (*Strix occidentalis caurina*), marbled murrelet (*Brachyramphus marmoratus*), and bull trout (*Salvelinus confluentus*) are listed as threatened species in Mason County. Streaked horned lark (*Eremophila alpenstris strigata*) is proposed threatened and Shelton pocket gophers (*Thomomys mazama couchi*) are a candidate species. Puget Sound Chinook, Hood Canal Summer-run chum, and Puget Sound steelhead are all threatened salmonids. Puget Sound coho are a species of concern.

c. Is the site part of a migration route? If so, explain.

Coho and winter steelhead migrate into Haven Lake via the stream at the east side of the lake according to SalmonScape (accessed 01/23/13). Fall chum migrate to the dam and do

not continue into the lake. The dam is considered a full passage barrier at that point, yet rearing is shown to occur on the other side of the barrier.

d. Proposed measures to preserve or enhance wildlife, if any:

To preserve fish and wildlife resources, WDFW will time this project to have minimal impact upon wildlife. The culvert replacement preserves and enhances juvenile fish habitat, allowing them to have better access to side-channel habitat, especially during times of high flows.

6. **Energy and natural resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

None are needed.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None are included.

7. **Environmental health**

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

1) Describe special emergency services that might be required.

None.

2) Proposed measures to reduce or control environmental health hazards, if any:

Avoid use of toxic chemicals and materials.

b. **Noise**

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Increased levels of noise during construction activities are expected from this project. Hours of increased noise levels will be 7am to 6pm. No change in noise level is expected from the completed project.

3) Proposed measures to reduce or control noise impacts, if any:

No special noise reduction efforts are planned.

8. **Land and shoreline use**

a. What is the current use of the site and adjacent properties?

The current use is a public boat launch with trailer and vehicle parking. The site is utilized for fishing, swimming, and boating. The parcel is owned by Mason County and WDFW maintains the site. The adjacent properties include private home sites, many with docks that are on Haven Lake.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

This site has a gravel boat ramp, established gravel parking area, and a vault toilet. The culvert that currently is under the road is 18" in diameter. There is a dam on the site and the stop logs can be placed and removed as necessary to maintain water levels in the lake and the creek. The dam can alter the habitat in the stream, drying it up if too many stop logs are left in during periods of low precipitation.

d. Will any structures be demolished? If so, what?

The current culvert (18") is being removed to enhance fish passage with replacement of the culvert with a 54" equivalent pipe arch.

e. What is the current zoning classification of the site?

RR5

f. What is the current comprehensive plan designation of the site?

Rural

g. If applicable, what is the current shoreline master program designation of the site?

Urban Residential

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

The site is not listed under Priority Habitat and Species from WDFW (01/23/13). The creek and the lake are habitat for various fish, including listed fish as addressed in #5 of this SEPA:

Coho and winter steelhead migrate into Haven Lake via the stream at the east side of the lake according to SalmonScape. Fall chum migrate to the dam and do not continue into the lake. The dam is considered a full passage barrier at that point, yet rearing is shown to occur on the other side of the barrier.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None.

9. **Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. **Aesthetics**

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

There will not be any new structures other than the new culvert and the gravel that covers the area.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. **Light and glare**

a. What type of light or glare will the proposal produce? **None.** What time of day would it mainly occur?

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?

The area is used for fishing, swimming, and boating.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Recreation will not be impacted. The boat ramp will not be blocked. Access to parking may be limited, but it is expected that this impact will be short term.

13. **Historic and cultural preservation**

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

No.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Not Applicable.

c. Proposed measures to reduce or control impacts, if any:

Keep project within the proposed footprint.

14. **Transportation**

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

No modifications will be made to the existing roads. The access parking area will be temporarily closed while the culvert is being installed. The site can be accessed via NE Haven Lake Drive and Rhododendron Lane.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

The site is not served by public transit. The nearest stop is approximately 6 miles away in Belfair at Beck Rd NE.

c. How many parking spaces would the completed project have? How many would the project eliminate?

The proposed project does not add or remove any parking.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

This project is not expected to increase recreational access or opportunities and it is not anticipated that additional vehicular trips will be generated by the project.

g. Proposed measures to reduce or control transportation impacts, if any:

None.

15. **Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. **Utilities**

a. Circle utilities currently available at the site: **There is a streetlight at the access.** **electricity**, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No additional utilities are planned this site.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Chris Gourley

Name of signee: **Chris Gourley**

Position and Agency/Organization: **Biologist, Washington Department of Fish and Wildlife**

Date Submitted: **February 7, 2013**

Appendix A Project Drawings